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**Sent:** Wednesday, September 6, 2017 10:36 PM  
**To:** anthony.buck@tceq.texas.gov; Martin, John; Jimmy.A.Martinez; Tedd.B.Hutley\_uscg.mil  
**Subject:** Hurricane Harvey ESF-10 Texas Situation Report #8 for 9/6/17  
**Attachments:** Hurricane Harvey ESF-10 Texas Situation Report #8 for 09-06-17.pdf

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## **Hurricane Harvey-Texas**

### **ESF-10**

#### **Situation Report #8**

**Subject:** SITREP #8  
**To:** Agency Leads  
**Thru:** Matthew Loesel. PSC  
**From:** Unified Command  
**Date:** 9/6/2017  
**Reporting Period:** 9/6/2017

## **1. Introduction**

### **1.1. Background**

Hurricane Harvey made landfall at 2300 ET, August 26<sup>th</sup>, as a Category 4 storm near Rockport, Texas. Harvey stalled over southeastern TX. Due to its slow motion and a prolonged period of onshore flow, the impacted areas received more than 50 inches of precipitation which subsequently led to catastrophic flooding.

An ESF-10 Mission Assignment was signed on August 28, 2017. The US Environmental Protection Agency (EPA), Texas Commission on the Environmental Quality (TCEQ), Texas General Land Office (TGLO) and the US Coast Guard (USCG) have entered into Unified Command to begin the evaluation, clean-up and recovery of spills, releases and orphan containers.

## **2. Current Activities**

### **2.1. Operations Section**

On September 6, 2017, Unified Command continued operations in accordance with the Natural Disaster Operational Workgroup (NDOW) Standard Operating Procedures, NDOW forms and Response Manager. The Unified Command is supported by three operational branches: Alpha Branch in Corpus Christi, Bravo Branch in Houston and Charlie Branch in Port Arthur. Oil Discharge Assessment and Recovery teams as well as Orphan Container Evaluation and Recovery teams continued working throughout the Alpha, Bravo and Charlie Branches. Drinking Water (DW) and Waste Water (WW) Assessment teams were active in the Bravo Branch. EPA's mobile air monitoring Trace Atmospheric Gas Analyzer (TAGA) bus conducted air monitoring in the Houston area today near the Valero Refinery and will continue to monitoring various areas in the Bravo Branch. ASPECT continued to survey Risk Management Program (RMP), Facility Risk Plan (FRP), Drinking water and Waste water facilities in the affected areas. Today, ASPECT continued to survey targets in zones 8 and 10 in Brazoria and Harris counties.

The phone bank in Austin, consisting of EPA and TCEQ personnel continue contacting drinking water and waste water facilities by phone. They conduct an initial damage assessment via phone surveys. Applicable survey forms are completed for systems and then entered into Response Manager. Areas of concern are followed up with an on-site assessment.

**Table 1** represents the assessments of drinking water and waste water systems evaluated by both phone and on-site.

<b>Table 1: Drinking Water and Waste Water Assessments</b>		
	<b>Daily Assessments</b>	<b>Total Assessments</b>
<b>On-Site DW Assessments</b>	50	168
<b>On-Site WW Assessments</b>	41	115
<b>Phone DW Assessments</b>	432	4510
<b>Phone WW Assessments</b>	98	2794

Table 2 and 3 represent the work of teams in Alpha, Bravo and Charlie Branches in the evaluation, assessment and recovery of orphan container and spills or discharge from various targets in the Alpha, Bravo and Charlie Branches.

<b>Table 2: Daily/Cumulative summary of Hazard Evaluations/Recovery</b>				
<b>Status</b>	<b>Opened</b>		<b>Closed</b>	
	<b>9/6/2017</b>	<b>Number of Targets Remaining Open</b>	<b>9/6/2017</b>	<b>Cumulative</b>
Alpha Branch	1	29	4	69
Bravo Branch	2	154	2	24
NRC Reports	0	3	0	0
<b>Totals</b>	<b>3</b>	<b>186</b>	<b>6</b>	<b>93</b>

Note: Open means the target is yet to be recovered. Closed means the target was recovered/left in place or access was denied to collect the item.

<b>Table 3: Daily/Cumulative Summary of Spills/Discharges</b>				
<b>Status</b>	<b>Opened</b>		<b>Closed</b>	
	<b>9/6/2017</b>	<b>Number of Targets Remaining Open</b>	<b>9/6/2017</b>	<b>Cumulative</b>
Alpha Branch	32	410	5	58
Bravo Branch	3	53	0	12
NRC Reports	1	29	1	16
<b>Totals</b>	<b>36</b>	<b>492</b>	<b>6</b>	<b>86</b>

Note: Open means the target is yet to be recovered. Closed means the target was recovered/left in place or access was denied to collect the item.

## **Other Notable Activities**

### **AUSTIN BRANCH**

The phone bank continued to conduct phone surveys for assigned drinking water and wastewater facilities. Information is used to conduct damage assessments. EPA and TCEQ continued completing applicable survey forms for each water or wastewater system and enter the data into Response Manager.

### **ALPHA BRANCH**

On Wednesday September 6, 2017, the Alpha Branch continued to review the backlog list of NRC reports compared to Response Manager targets. Oversight of fuel transfer of Signet Enterprise continued, with a total of 60,000 gallons being transferred to date.

Operations moved all materials from the Port Aransas staging pad to the larger Aransas Pass staging pad. Alpha Branch met with TCEQ, TGLO, and Texas Rail Road Commission to coordinate a process for transferring and closing facility targets in Response Manager.

The Hazard Evaluation (HE) team assessed the site at Sherwin Alumina on Copano Bay in Aransas county. They met with facility personnel to assess the discharge of red mud and wastewater from the 4 waste management beds at the facility. The HE team proceeded to the Voestalpine facility in San Patricio County and met with facility personnel to assess the discharge of iron fines from around the dock/unloading area into Corpus Christi Bay. Voestalpine was unable to be adequately assessed due to limited access to the area of concern from the Voestalpine property. An additional area of concern is on the Port of Corpus Christi

property near Corpus Christi Bay. A boat or access from the Port of Corpus Christi is required to investigate the area.

One of the boats had trailer issues requiring maintenance so primary water recovery operations were postponed until tomorrow. Another boat which launched to conduct hazard evaluations had an electrical fire. There were no injuries, the boat was not destroyed and it was pulled back to shore. The Alpha Branch recovered 2 additional 55-gallon drums and one 75-gallon tote. A new target was opened for a 100 lb. propane tank.

Oil Discharge Recovery Group (ODR) 1 continued coordination efforts and monitored Responsible Party led operations in Conn Brown Harbor. ODR 1 assessed upcoming salvage operations for the fishing vessel BIG SOME BEACH and two shrimp boats, DRAGON DEN and R&R. ODR 1 prioritized threats to the environment for removal.

Oil Discharge Recovery Group (ODR) 2 continued coordination efforts and monitored Responsible Party led operations in Island Moorings. 20 additional targets were added during assessment of surrounding areas. 8 targets were removed.

Orphan Container Recovery 2 closed its first target which was a tank. ORC 2 also found and retrieved a cylinder on Interstate 35 and two propane cylinders in a debris line. OCR 2 assessed several potential targets and closed them.

DATE	CONTAINERS			Cylinders	TOTALS	
	Drums [55gal]	Small Containers [< 55gal]	Large Containers [> 55gal]		Total Items Collected Today	Total Items Collected Project to Date
9/1/2017	26	22	1	1	49	49
9/2/2017	6	10	1		17	66
9/3/2017	7			3	7	73
9/4/2017	10		3	1	13	86
9/5/2017				5	5	91
9/6/2017	1	3	1		5	96
<b>Totals</b>	50	35	6	10		

## **BRAVO BRANCH**

Twenty-five Hazard Evaluation (HE) Teams conducted assessments in Austin, Waller, Montgomery, Walker, Colorado, and Fort Bend Counties. HE Assessment Status: 100% complete in Liberty County, Austin County, Waller County, and Chambers County. 90% complete in Montgomery County, Walker County, and Colorado County. 10 % complete in Fort Bend County. Some HE Assessments in Walker County were impacted by road closures and flooding.

The Air Recon Team conducted an aerial overflight in the morning to assess Walker County and Montgomery County identifying no new targets. The Branch Director and Deputy Branch Director flew a survey of the Houston Ship Channel to verify clean-up of existing discharges and clear up confusion on existing reports.

Six Discharge Assessment Teams identified 16 potential staging areas. The Discharge Assessment Group will be plotting these locations on grids and working with the State to make sure the areas are viable.

The Air Monitoring Team continued monitoring in the Bravo Branch with no exceedances.

On Wednesday September 6, the ASPECT surveyed zones 8 and 10. Zone 8 consisted of SW Brazoria County and zone 10 consisted of W Harris County. Summary for zone 8 is:

RMP = 7 of 10

Drinking Water = 49 of 95

Waste Water = 5 of 9

Summary for zone 10 is:

RMP = 1 of 1

Drinking Water = 58 of 58

Waste Water = 21 of 21

ASPECT has completed zone 10 (Katy North). 80 targets (49 flight lines) were completed in Zone 10. Current plans are to resume the survey in Zone 8 (92 targets, 83 lines). At the completion of survey activities today, ASPECT will transition to Addison for additional work on one of its sensors. It is anticipated that the sensor will be fully operational by morning.

## **CHARLIE BRANCH**

Hazard evaluation teams have been split into 2 groups. 4 Coastal Hazard Evaluation groups are led by TGLO representatives. 4 Inland Hazard Evaluation groups are led by TCEQ representatives.

Charlie Branch's Hazard Evaluation (HE) team covered areas in Jefferson County and inspected Neches River facilities, including the Trinity Triangle Marine and observed no targets. The Exxon/Mobile Beaumont Refinery reported widespread flooding, but no discharge. Boom is deployed as a precaution. The Beaumont Yacht Club is still flooded and inaccessible. HE teams covered I-10 in Orange County and they recorded 8 targets. Another HE team assessed Highway 605, Orangefield Road, Kilmarnack and they reported oil in ditches which was sampled by TGLO. They inspected several yachts in Orange County and the HE team inspected Port Arthur Route 73 and identified 4 targets.

Teams attempted to perform assessments of Alligator Bay but the road had washed away and there was no access. They also performed assessments of Pleasure Island and Taylor Bayou and no targets were noted. They observed oil being discharged from the Motiva facility. An OSRO was on scene and tending to the spill. Also observed were visible sheens and emulsified oil at three separate locations along a pipeline.

OSC Schmaedick and ERRS responded to oil spill in Orange, where the Responsible Party's contractor was performing clean-up.

### **Participating Agencies**

- **Texas Commission on Environmental Quality**
- **Texas General Land Office**
- **Texas Parks and Wildlife**
- **6<sup>th</sup> Civil Support Team**
- **US Environmental Protection Agency**
- **US Coast Guard**
- **National Oceanic and Atmospheric Agency**

### 3. Personnel on Site

Agency	ICP	Alpha Branch	Bravo Branch	Charlie Branch	Austin	Totals
US EPA	16	3	28	3	10	60
USCG	8	22	30	30		90
TCEQ	4	5	28	12		49
TGLO	9	1	0	6		16
TXSG	0	0	28	0		28
CST	0	0	14	0		14
NOAA	2	0	1	0		3
OKTF	0	0	1	0		1
Contractors	7	10	15	9		41
<b>Totals</b>	46	41	145	60	10	302



